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☐ 1. Document ID: US 6544746 B2

L6: Entry 1 of 21

File: USPT

Apr 8, 2003

US-PAT-NO: 6544746

DOCUMENT-IDENTIFIER: US 6544746 B2

TITLE: Rapid and sensitive proximity-based assay for the detection and quantification of DNA binding proteins

DATE-ISSUED: April 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Heyduk; Tomasz	Ballwin	MO		

US-CL-CURRENT: 435/6; 435/18, 435/91.2, 536/23.1, 536/24.3, 536/24.31, 536/24.32, 536/24.33

ABSTRACT:

Methods to determine the activity of any and all DNA binding factors, proteins or fragments thereof based upon the detection of a change in a luminescence or fluorescence signal are provided. Preferably, a fluorescence donor is attached to a nucleic acid comprising one portion of a DNA binding element and a fluorescence acceptor is attached to a nucleic acid comprising the other portion of the same binding element. Alternatively, a microsphere bead is attached to a nucleic acid comprising one portion of a binding element and a luminescent moiety or fluorochrome is attached to a nucleic acid comprising the other portion of the same binding element. Binding of a DNA binding factor to the nucleic acid components affects a change in luminescence. These methods may also be used to detect mediating analytes, to diagnose diseases and/or screen for drugs that mediate the activity of DNA binding factors.

46 Claims, 19 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	Keywords
Draw Desc	Image										

☐ 2. Document ID: US 6312896 B1

L6: Entry 2 of 21

File: USPT

Nov 6, 2001

US-PAT-NO: 6312896

DOCUMENT-IDENTIFIER: US 6312896 B1

TITLE: Assays for measuring nucleic acid binding proteins and enzyme activities

DATE-ISSUED: November 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Heroux; Jeffrey A.	Middletown	MD		
Kibbey; Maura C.	Darnestown	MD		
Kenten; John H.	Boysds	MD		

US-CL-CURRENT: 435/6; 435/18, 435/7.1, 435/7.5, 530/350, 536/23.1

ABSTRACT:

The present invention provides processes for measuring DNA or RNA binding proteins, specific nucleic acids, as well as enzyme activities using labeled nucleic acids of labeled protein/peptide molecules.

23 Claims, 9 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
Draw Desc	Image										

☐ 3. Document ID: US 6225071 B1

L6: Entry 3 of 21

File: USPT

May 1, 2001

US-PAT-NO: 6225071

DOCUMENT-IDENTIFIER: US 6225071 B1

TITLE: Methods of screening for compounds which mimic galectin-1

DATE-ISSUED: May 1, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cummings; Richard D.	Edmond	OK		
Cho; Moon-Jae	Oklahoma City	OK		

US-CL-CURRENT: 435/7.24; 435/18, 435/375

ABSTRACT:

Methods for treating and modulating an inflammatory response using compositions containing a primarily monomeric or primarily dimeric form of galectin-1. The dimeric form stimulates apoptosis of activated neutrophils while the monomeric form inhibits apoptosis of activated neutrophils. Methods of screening for compounds which have galectin-1-like functions are also identified.

1 Claims, 6 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
Draw Desc	Image										

☐ 4. Document ID: US 6153419 A

L6: Entry 4 of 21

File: USPT

Nov 28, 2000

US-PAT-NO: 6153419

DOCUMENT-IDENTIFIER: US 6153419 A

TITLE: Method for quantitative determination of 1,5-anhydroglucitol

DATE-ISSUED: November 28, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Aisaka; Kazuo	Machida			JP
Tazoe; Sakae	Fuji			JP
Ando; Katsuhiko	Machida			JP
Ochiai; Keiko	Ebina			JP

US-CL-CURRENT: 435/200; 435/100, 435/18, 435/872

ABSTRACT:

The present invention relates to a method for quantitative determination of 1,5-anhydroglucitol in a sample, which comprises mixing the sample and an enzyme having activity that is inhibited by 1,5-anhydroglucitol in a concentration-dependent manner, and measuring the activity of the enzyme; and a reagent for quantitative determination of 1,5-anhydroglucitol which comprises an enzyme having activity that is inhibited by 1,5-anhydroglucitol in a concentration-dependent manner, a substrate for the enzyme, and a reagent for quantitative determination of a product formed by the enzyme activity. The present invention also relates to novel trehalase having a K_i value of 0.33 mM or less for 1,5-anhydroglucitol; and a process for producing novel trehalase having the above-mentioned physicochemical properties, which comprises culturing in a medium a microorganism belonging to the genus *Nocardia* and capable of producing the trehalase, and recovering the trehalase from the culture.

18 Claims, 10 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 10

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 5. Document ID: US 6139782 A

L6: Entry 5 of 21

File: USPT

Oct 31, 2000

US-PAT-NO: 6139782

DOCUMENT-IDENTIFIER: US 6139782 A

TITLE: Compounds, compositions and methods for generating chemiluminescence with phosphatase enzymes

DATE-ISSUED: October 31, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Akhavan-Tafti; Hashem	Brighton	MI		
Arghavani; Zahra	Brighton	MI		
DeSilva; Renuka	Northville	MI		

US-CL-CURRENT: 252/700; 435/18, 435/21, 435/28, 435/4, 435/6, 435/7.1, 544/101, 544/102, 548/157

ABSTRACT:

Novel heterocyclic compounds which generate chemiluminescence on reaction with a phosphatase enzyme are provided as well as a process for their preparation and intermediates useful therein. The compounds comprise a nitrogen, oxygen or sulfur-containing heterocyclic ring system bearing an exocyclic carbon-carbon double bond. The double bond is further substituted at the distal carbon with a phosphate group and an oxygen or sulfur atom-containing group.

Novel compositions further comprising a cationic aromatic compound (CAC) in addition to the heterocyclic phosphate compound are provided. The addition of the CAC in the composition greatly increases the production of chemiluminescence and provides improved detection sensitivity. Compositions further comprising an anionic surfactant and a non-ionic surfactant provide additional improvements in detection sensitivity. The novel chemiluminescent compounds and compositions are useful in methods for producing light and in assays for phosphatase enzymes and enzyme inhibitors and in assays employing enzyme-labeled specific binding pairs.

63 Claims, 19 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 6. Document ID: US 6063581 A

L6: Entry 6 of 21

File: USPT

May 16, 2000

US-PAT-NO: 6063581

DOCUMENT-IDENTIFIER: US 6063581 A

TITLE: Immunoassay for homocysteine

DATE-ISSUED: May 16, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sundrehagen; Erling	Moss			NO

US-CL-CURRENT: 435/7.1; 435/15, 435/18, 435/7.9, 435/7.91, 435/7.93

ABSTRACT:

The invention relates to a method for assaying homocysteine in a sample such as blood, plasma or urine, which comprises the steps of contacting the sample with a homocysteine converting enzyme and at least one substrate for the enzyme other than

homocysteine, and without chromatographic separation, assessing a non-labelled analyte selected from a homocysteine co-substrate and the homocysteine conversion products of the enzymic conversion of homocysteine by said enzyme.

29 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 7. Document ID: US 5958717 A

L6: Entry 7 of 21

File: USPT

Sep 28, 1999

US-PAT-NO: 5958717

DOCUMENT-IDENTIFIER: US 5958717 A

TITLE: Immunoassay for homocysteine

DATE-ISSUED: September 28, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sundrehagen; Erling	Moss			NO

US-CL-CURRENT: 435/18; 435/15, 435/16, 435/21, 435/23, 435/24, 435/28, 435/4, 435/7.1

ABSTRACT:

The invention relates to a method for assaying homocysteine in a sample such as blood, plasma or urine, which comprises the steps of contacting the sample with a homocystene conveying enzyme and at least one substrate for the enzyme other than homocysteine, and without chromatographic separation, assessing a non-labelled analyte selected from a homotysteine co-substrate and the homocysteine conversion products of the enzymic conversion of homocysteine by said enzyme.

13 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 8. Document ID: US 5948628 A

L6: Entry 8 of 21

File: USPT

Sep 7, 1999

US-PAT-NO: 5948628

DOCUMENT-IDENTIFIER: US 5948628 A

TITLE: Methods of screening for compounds which mimic galectin-1

DATE-ISSUED: September 7, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cummings; Richard D.	Edmond	OK		
Cho; Moon-Jae	Oklahoma City	OK		

US-CL-CURRENT: 435/7.24; 435/18, 435/375

ABSTRACT:

Methods for treating and modulating an inflammatory response using compositions containing a primarily monomeric or primarily dimeric form of galectin-1. The dimeric form stimulates apoptosis of activated neutrophils while the monomeric form inhibits apoptosis of activated neutrophils. Methods of screening for compounds which have galectin-1-like functions are also identified.

9 Claims, 6 Drawing figures
Exemplary Claim Number: 4
Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw. Desc	Image									

☐ 9. Document ID: US 5843666 A

L6: Entry 9 of 21

File: USPT

Dec 1, 1998

US-PAT-NO: 5843666

DOCUMENT-IDENTIFIER: US 5843666 A

TITLE: Chemiluminescent detection methods using dual enzyer-labeled binding partners

DATE-ISSUED: December 1, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Akhavan-Tafti; Hashem	Brighton	MI		
Sugioka; Katsuaki	Farmington Hills	MI		
Sugioka; Yumiko	Farmington Hills	MI		
Reddy; Lekkala V.	Ann Arbor	MI		

US-CL-CURRENT: 435/6; 435/18, 435/28, 435/7.1, 435/7.9, 435/7.91, 435/7.92

ABSTRACT:

Methods of detecting analytes or target species using two enzyme-labeled specific binding partners where the two enzymes function in concert to produce a detectable chemiluminescent signal are disclosed. The methods use a specific binding partner labeled with a hydrolytic enzyme to produce a phenolic enhancer in close proximity to a peroxidase-labeled second specific binding partner. The method is useful to detect and quantitate with improved specificity various biological molecules including antigens and antibodies by the technique of immunoassay, proteins by Western blotting, DNA by Southern blotting, RNA by Northern blotting. The method may also be used to detect DNA mutations and juxtaposed gene segments in chromosomal translocations and particularly to unambiguously identify heterozygous genotypes in a single test.

29 Claims, 9 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 9

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMOC
Draw Desc	Image									

☐ 10. Document ID: US 5827645 A

L6: Entry 10 of 21

File: USPT

Oct 27, 1998

US-PAT-NO: 5827645

DOCUMENT-IDENTIFIER: US 5827645 A

TITLE: Homocysteine assay

DATE-ISSUED: October 27, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sundrehagen; Erling	Moss			NO

US-CL-CURRENT: 435/4; 435/15, 435/16, 435/18, 435/21, 435/23, 435/24, 435/28,
435/7.1, 435/975

ABSTRACT:

The invention relates to a method for assaying homocysteine in a sample such as blood, plasma, or urine, which comprises the steps of contacting the sample with a homocysteine converting enzyme and at least one substrate for the enzyme other than homocysteine, and without chromatographic separation, assessing a non-labelled analyte selected from a homocysteine co-substrate and the homocysteine conversion products of the enzymic conversion of homocysteine by said enzyme.

23 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMOC
Draw Desc	Image									

☐ 11. Document ID: US 5821075 A

L6: Entry 11 of 21

File: USPT

Oct 13, 1998

US-PAT-NO: 5821075

DOCUMENT-IDENTIFIER: US 5821075 A

TITLE: Nucleotide sequences for novel protein tyrosine phosphatases

DATE-ISSUED: October 13, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gonez; Leonel Jorge	Hughesdale			AU
Saras; Jan	Upsala			SE
Claesson-Welsh; Lana	Upsala			SE
Heldin; Carl-Henrik	Upsala			SE

US-CL-CURRENT: 435/21; 435/18, 435/196, 435/320.1, 435/69.1, 435/7.21, 530/350,
536/23.5

ABSTRACT:

The invention relates to the cloning of two novel protein tyrosine phosphatases. Nucleic acid sequences encoding these phosphatases (PTPL1 and GLM-2) as well as anti-sense sequences are also provided. The recombinantly produced PTPL1 and GLM-2 proteins also are provided, as well as antibodies to these proteins. Methods relating to isolating the phosphatases, using the nucleic acid sequences, and using the phosphatases also are provided.

12 Claims, 4 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 12. Document ID: US 5783382 A

L6: Entry 12 of 21

File: USPT

Jul 21, 1998

US-PAT-NO: 5783382
DOCUMENT-IDENTIFIER: US 5783382 A

TITLE: Method for storing liquid diagnostic reagents

DATE-ISSUED: July 21, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Aoyama; Norihito	Gotenba			JP
Sakakibara; Minako	Sunto-gun			JP
Miike; Akira	Sunto-gun			JP

US-CL-CURRENT: 335/4; 422/50, 422/68.1, 423/392, 435/14, 435/15, 435/17, 435/18,
435/19, 435/25, 435/26, 435/27, 435/28

ABSTRACT:

Disclosed is a method for stably storing a liquid diagnostic reagent, comprising air-hermetically keeping the liquid diagnostic reagent in a closed container in the presence of a disoxidant therein. Preferably, at least one of the liquid diagnostic reagent and the disoxidant is covered with a separating container made of a material pervious to oxygen but not to solutions. The liquid diagnostic reagent may comprise an enzyme or an indicator.

12 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KIMC

☐ 13. Document ID: US 5723295 A

L6: Entry 13 of 21

File: USPT

Mar 3, 1998

US-PAT-NO: 5723295

DOCUMENT-IDENTIFIER: US 5723295 A

**** See image for Certificate of Correction ****

TITLE: Methods, acridan compounds and kits for producing light

DATE-ISSUED: March 3, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Akhavan-Tafti; Hashem	Brighton	MI		
Arghavani; Zahra	Brighton	MI		
DeSilva; Renuka	Northville	MI		

US-CL-CURRENT: 435/6; 435/18, 435/28, 435/7.9, 435/7.91, 435/7.92, 435/7.93,
435/7.94, 435/7.95, 435/966, 435/968, 435/975

ABSTRACT:

A chemiluminescent assay method, compositions, kits and chemiluminescent acridan compounds are described which use a two-step chemiluminescent reaction process. The reaction involves an acridan compound, preferably a derivative of an N-alkylacridan-9-carboxylic acid, which undergoes a reaction with a peroxide compound, a peroxidase enzyme and an enhancer under conditions of time, temperature and pH which permit the accumulation of an intermediate compound, which is subsequently induced to produce a burst of light by raising the pH. The result is generation of very high intensity light from the reaction. The peroxidase enzyme is present alone or linked to a member of a specific binding pair in an immunoassay, DNA probe assay or other assay where the hydrolytic enzyme is bound to a reporter molecule. The method is particularly amenable to automated assays because of the separation of the incubation and light generating steps.

33 Claims, 4 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KIMC

☐ 14. Document ID: US 5686258 A

L6: Entry 14 of 21

File: USPT

Nov 11, 1997

US-PAT-NO: 5686258

DOCUMENT-IDENTIFIER: US 5686258 A

**** See image for Certificate of Correction ****TITLE: Chemiluminescent detection of hydrolytic enzymes using an acridan

DATE-ISSUED: November 11, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Akhavan-Tafti; Hashem	Sterling Heights	MI		
Arghavani; Zahra	Sterling Heights	MI		
DeSilva; Renuka	Northville	MI		

US-CL-CURRENT: 435/7.91; 435/18, 435/28, 435/6, 435/7.1, 435/7.9, 435/7.92, 435/7.93, 435/7.94, 435/7.95, 435/966, 435/968, 435/975

ABSTRACT:

A chemiluminescent assay method, compositions and kits are described which use a protected phenolic enhancer compound which is deprotected by a hydrolytic enzyme and then enhances a chemiluminescent reaction. The reaction involves an acridan compound, preferably a derivative of an N-alkylacridan-9-carboxylic acid, which is activated to produce light by a peroxide compound and a peroxidase enzyme in the presence of the deprotected enhancer. The result is enhanced generation of light from the reaction. The hydrolytic enzyme is present alone or linked to a member of a specific binding pair in an immunoassay, DNA probe assay or other assay where the hydrolytic enzyme is bound to a reporter molecule.

34 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMC

☐ 15. Document ID: US 5631127 A

L6: Entry 15 of 21

File: USPT

May 20, 1997

US-PAT-NO: 5631127

DOCUMENT-IDENTIFIER: US 5631127 A

TITLE: Enzymatic assay for homocysteine and a kit therefor

DATE-ISSUED: May 20, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sundrehagen; Erling	Moss			NO

US-CL-CURRENT: 435/4; 435/15, 435/18, 435/21, 435/810, 435/975, 514/499

ABSTRACT:

The invention relates to a method for assaying homocysteine in a sample such as blood, plasma or urine, which comprises the steps of contacting the sample with a homocysteine converting enzyme and at least one substrate for the enzyme other than homocysteine, and without chromatographic separation, assessing a non-labelled analyte selected from a homocysteine co-substrate and the homocysteine conversion products of the enzymic conversion of homocysteine by said enzyme.

24 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KVMC

☐ 16. Document ID: US 5589328 A

L6: Entry 16 of 21

File: USPT

Dec 31, 1996

US-PAT-NO: 5589328

DOCUMENT-IDENTIFIER: US 5589328 A

TITLE: Chemiluminescence assays based on indoxyl substrates, thioindoxyl substrates and other substrates

DATE-ISSUED: December 31, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mahant; Vijay K.	La Mesa	CA	91942	

US-CL-CURRENT: 435/4; 435/18, 435/19

ABSTRACT:

Chemiluminescence-based assays that detect or quantify enzymes that catalyze the hydrolysis of indoxyl esters are provided. The assays are based on the hydrolysis of indoxyl esters by enzymes of interest, such as alkaline phosphatase and others that are used as labels in immunoassays or nucleic acid hybridization reactions, or are present in body fluids. The assays include the steps of reacting a test sample with an indoxyl ester and, then, immediately or within a short time, typically less than about fifteen minutes, measuring the resulting chemiluminescence. The resulting chemiluminescence may be amplified by adding a chemiluminescence-amplifying reagent, such as horseradish peroxidase or lucigenin to the reaction.

20 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KVMC

☐ 17. Document ID: US 5523212 A

L6: Entry 17 of 21

File: USPT

Jun 4, 1996

US-PAT-NO: 5523212

DOCUMENT-IDENTIFIER: US 5523212 A

**** See image for Certificate of Correction ****TITLE: Aryl N-alkylacridanthiocarboxylate derivatives useful for chemiluminescent detection

DATE-ISSUED: June 4, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Akhavan-Tafti; Hashem	Sterling Heights	MI		
DeSilva; Renuka	Northville	MI		
ArgHAVANI; Zahra	Sterling Heights	MI		

US-CL-CURRENT: 435/28; 435/18, 435/19, 435/21, 435/25, 435/4, 435/810, 435/968,
436/172, 436/501, 536/18.7, 546/102, 546/108

ABSTRACT:

Aryl N-alkylacridanthiocarboxylate compounds which produce chemiluminescence. The compounds produce light with peroxide and peroxidase. The compounds are used as a substrate in assays for various analytes.

66 Claims, 16 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 14

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

K00C

☐ 18. Document ID: US 5491072 A

L6: Entry 18 of 21

File: USPT

Feb 13, 1996

US-PAT-NO: 5491072

DOCUMENT-IDENTIFIER: US 5491072 A

TITLE: N-alkylacridan carboxyl derivatives useful for chemiluminescent detection

DATE-ISSUED: February 13, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Akhavan-Tafti; Hashem	Sterling Heights	MI		
Desilva; Renuka	Northville	MI		
Sugioka; Katsuaki	Farmington Hills	MI		

US-CL-CURRENT: 435/28; 435/18, 435/19, 435/21, 435/25, 435/4, 435/810, 435/968,
436/172, 436/501, 536/18.7, 546/102, 546/108

ABSTRACT:

N-alkylacridan carboxylic acid derivative compounds (I) are used to generate chemiluminescence by the action of a peroxidase enzyme and an oxidant. The compounds I are useful in assays of all types.

68 Claims, 12 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

K00C

☐ 19. Document ID: US 5445944 A

L6: Entry 19 of 21

File: USPT

Aug 29, 1995

US-PAT-NO: 5445944

DOCUMENT-IDENTIFIER: US 5445944 A

TITLE: Methods for determining peroxidately active substances

DATE-ISSUED: August 29, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ullman; Edwin F.	Atherton	CA		

US-CL-CURRENT: 435/28; 435/18, 435/188, 435/19, 435/25, 435/4, 435/7.1, 436/534,
436/537, 536/17.2, 536/17.9, 536/4.1

ABSTRACT:

Methods and compositions are disclosed for determining a peroxidatively active substance (PAS). The methods comprise the step of detecting a fluorescent signal produced upon cleavage of a compound of the formula F-L-Q, wherein F is a fluorescer capable of producing the signal, Q is a quencher capable of quenching the signal when linked to F, and L is a bond, or a linking group having a bond, wherein the bond is capable of being cleaved by a reaction of the PAS with a substrate of the PAS and a hydrogen donor wherein the cleavage of the bond substantially reduces the quenching. The methods have application in a wide variety of systems including assays and improved assays for analytes. Also disclosed are kits for conducting the methods and improvements in accordance with the present invention.

15 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

K00C

☐ 20. Document ID: US 5106732 A

L6: Entry 20 of 21

File: USPT

Apr 21, 1992

US-PAT-NO: 5106732

DOCUMENT-IDENTIFIER: US 5106732 A

TITLE: Method for enhancement of chemiluminescence

DATE-ISSUED: April 21, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kondo; Koichi	Soraku			JP
Sohda; Takashi	Takatsuki			JP

US-CL-CURRENT: 435/28; 435/18, 435/968, 436/826, 548/122

ABSTRACT:

A method for enhancing chemiluminescence which uses a heterocyclic compound of the formula: ##STR1## wherein R.sub.1 is an oxygen or sulfur atom or an imino group optionally substituted by 4-hydroxyphenyl, and R.sub.2, R.sub.3 and R.sub.4 are a hydrogen or halogen atom, an optionally substituted hydrocarbon residue, a heterocyclic group or the like in a luminescence system.

12 Claims, 1 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWMC
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Term	Documents
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(L5 AND L2).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	21

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☐ 21. Document ID: US 4764462 A

L6: Entry 21 of 21

File: USPT

Aug 16, 1988

US-PAT-NO: 4764462

DOCUMENT-IDENTIFIER: US 4764462 A

TITLE: Detectably labeled cephalosporin assay for beta-lactamase

DATE-ISSUED: August 16, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bredehorst; Reinhard	Washington	DC		
Talebian; Abdolhossen	Arlington	VA		
Hammer; Charles F.	Washington	DC		
Vogel; Carl-Wilhelm	Washington	DC		

US-CL-CURRENT: [435/18](#); [435/188](#), [435/29](#), [435/34](#), [435/38](#), [435/39](#), [435/810](#)

ABSTRACT:

This invention provides for a cephalosporin immobilized on a solid phase support comprising a beta-lactamase releasable, detectably labeled substituent at the 3-position thereof.

This invention also provides for an assay for detecting the presence of beta-lactamase enzyme in a sample comprising:

(a) immobilizing a cephalosporin on a solid phase support wherein at the 3-position of said cephalosporin is a detectably labeled substituent releasable by beta-lactamase;

(b) contacting said sample with the immobilized cephalosporin of step (a); and,

(c) detecting the released substituent.

26 Claims, 1 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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